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1 Implementing typed intermediate languages
Zhong Shao, Christopher League, Stefan Monnier
September 1998 **ACM SIGPLAN Notices , Proceedings of the third ACM SIGPLAN international conference on Functional programming**, Volume 34 Issue 1
Full text available: pdf(1.50 MB) Additional Information: full citation, abstract, references, citings, index terms

Recent advances in compiler technology have demonstrated the benefits of using strongly typed intermediate languages to compile richly typed source languages (e.g., ML). A type-preserving compiler can use types to guide advanced optimizations and to help generate provably secure mobile code. Types, unfortunately, are very hard to represent and manipulate efficiently; a naive implementation can easily add exponential overhead to the compilation and execution of a program. This paper describes our ...

2 On parallel execution of multiple pipelined hash joins
Hui-I Hsiao, Ming-Syan Chen, Philip S. Yu
May 1994 **ACM SIGMOD Record , Proceedings of the 1994 ACM SIGMOD international conference on Management of data**, Volume 23 Issue 2
Full text available: pdf(1.24 MB) Additional Information: full citation, abstract, references, citings, index terms

In this paper we study parallel execution of multiple pipelined hash joins. Specifically, we deal with two issues, processor allocation and the use of hash filters, to improve parallel execution of hash joins. We first present a scheme to transform a bushy execution tree to an allocation tree, where each node denotes a pipeline. Then, processors are allocated to the nodes in the allocation tree based on the concept of synchronous execution time such that inner relations (i.e., hash tables) ...

3 Query evaluation techniques for large databases
Goetz Graefe
June 1993 **ACM Computing Surveys (CSUR)**, Volume 25 Issue 2
Full text available: pdf(9.37 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Database management systems will continue to manage large data volumes. Thus, efficient algorithms for accessing and manipulating large sets and sequences will be required to provide acceptable performance. The advent of object-oriented and extensible database systems will not solve this problem. On the contrary, modern data models exacerbate the problem: In order to manipulate large sets of complex objects as efficiently as today's database systems manipulate simple records, query-processi ...

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1 Parallel collision search with application to hash functions and discrete logarithms
Paul C. van Oorschot, Michael J. Wiener
November 1994 **Proceedings of the 2nd ACM Conference on Computer and communications security**
Full text available: pdf(984.91 KB) Additional Information: full citation, abstract, references, citings, index terms

Current techniques for collision search with feasible memory requirements involve pseudo-random walks through some space where one must wait for the result of the current step before the next step can begin. These techniques are serial in nature, and direct parallelization is inefficient. We present a simple new method of parallelizing collision searches that greatly extends the reach of practical attacks. The new method is illustrated with applications to hash functions and discrete logari ...

2 Fast joins using join indices
Zhe Li, Kenneth A. Ross
April 1999 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 8 Issue 1
Full text available: pdf(263.06 KB) Additional Information: full citation, abstract, index terms

Two new algorithms, "Jive join" and "Slam join," are proposed for computing the join of two relations using a join index. The algorithms are duals: Jive join range-partitions input relation tuple ids and then processes each partition, while Slam join forms ordered runs of input relation tuple ids and then merges the results. Both algorithms make a single sequential pass through each input relation, in addition to one pass through the join index and two passes through a te ...

Keywords: Decision support systems, Query processing

3 Research sessions: query progress: Toward a progress indicator for database queries
Gang Luo, Jeffrey F. Naughton, Curt J. Ellmann, Michael W. Watzke
June 2004 **Proceedings of the 2004 ACM SIGMOD international conference on Management of data**
Full text available: pdf(228.58 KB) Additional Information: full citation, abstract, references

Many modern software systems provide progress indicators for long-running tasks. These progress indicators make systems more user-friendly by helping the user quickly estimate how much of the task has been completed and when the task will finish. However, none of the existing commercial RDBMSs provides a non-trival progress indicator for long-running queries. In this paper, we consider the problem of supporting such progress indicators.

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RFC1810: Report on MD5 Performance. J. Touch. June 1995. (Format:...
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RFC1810
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rc = **HASH**.MD5(LengthRead,2,**Block**,Digest,Work);. if (rc != 0). {. printf("\nFailed to **hash intermediate block**");. return(0); ...
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Let k1 and k2 be text **blocks**, and z the internal state of the **hash** function. ... For every **intermediate** point in the mixing step, consider running the ...
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rfc1810
This RFC uses the following notation (as from RFC-1321 [3]): A,B,C,D **intermediate hash** words X[i] input data **block** T[i] sine table lookup << i rotate i bits ...
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A **hash** index on B would return 10000 **block** references, whereas there are only ... Underflow occurs at **intermediate** level, merging 2 **intermediate** nodes (one ...